

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A signaling method for automatic repeat request comprising:
receiving data frames from a mobile station at a base station;~~and~~
selectively gating a physical layer radio channel to provide ACK and NACK indications
responsive to the receipt of the data frames from the mobile station~~[[;]]~~, wherein
the physical layer radio channel is gated on to provide one of an ACK and a
NACK indication to the mobile station~~[[;]]~~, and ~~wherein the physical layer radio~~
~~channel~~ is gated off to provide the other one of the ACK and NACK indications to
the mobile station; and
wherein said physical layer radio channel is a forward common power control channel,
and further comprising transmitting power control bits in time-multiplexed power
control groups on the forward common power control channel, for power
controlling a plurality of mobile stations, and defining an ACK subchannel on the
forward common power control channel by allocating a number of power control
group slots for sending ACK/NACK indications rather than power control bits,
such that said selectively gating the physical layer radio channel to provide ACK
and NACK indications responsive to the receipt of the data frames from the
mobile station comprises selectively gating the forward common power control
on or off as needed for sending an ACK or a NACK to the mobile station at the
power control group slots allocated for sending ACK/NACK indications to the
mobile station.
2. (Original) The signaling method of claim 1 wherein the physical layer radio channel is
gated on to provide and ACK indication, and is gated off to provide a NACK indication.

3. (Original) The signaling method of claim 1 wherein the physical layer radio channel is gated on to provide a NACK indication, and is gated off to provide an ACK indication.
4. (Canceled)
5. (Canceled)
6. (Currently amended) The method of claim ~~[[5]]~~1 further comprising gating off the physical layer channel in the selected time slots on the ACK subchannel while the mobile station is idle.
7. (Original) The method of claim 1 further comprising repeating each ACK and NACK indication a predetermined number of times.
8. (Currently amended) A radio base station comprising:
 - a receiver to receive data frames from a mobile station; ~~and~~
 - a control unit to provide ACK and NACK indications to the mobile station, the control unit selectively gating a physical layer radio channel to provide ACK and NACK indications responsive to the receipt of the data frames from the mobile station~~[[:]]~~ wherein the control unit gates the physical layer radio channel on to provide one of an ACK and a NACK indication to the mobile station~~[[:]]~~ and wherein the control unit gates the physical layer radio channel off to provide the other one of the ACK and NACK indications to the mobile station; and
 - wherein said physical layer radio channel is a forward common power control channel,
 - and wherein the radio base station is configured to transmit power control bits in time-multiplexed power control groups on the forward common power control

channel, for power controlling a plurality of mobile stations, and wherein the control unit defines an ACK subchannel on the forward common power control channel by allocating a number of power control group slots for sending ACK/NACK indications rather than power control bits, and wherein the control unit selectively gates the physical layer radio channel to provide ACK and NACK indications responsive to the receipt of the data frames from the mobile station by selectively gating the forward common power control on or off as needed for sending an ACK or a NACK to the mobile station at the power control group slots allocated for sending ACK/NACK indications to the mobile station.

9. (Original) The radio base station of claim 8 wherein the control unit gates the physical layer radio channel on to provide an ACK indication, and gates the physical layer radio channel off to provide a NACK indication.

10. (Original) The radio base station of claim 8 wherein the control unit gates the physical layer radio channel on to provide and NACK indication, and gates the physical layer radio channel off to provide an ACK indication.

11. (Canceled)

12. (Canceled)

13. (Currently amended) The radio base station of claim ~~[[12]]~~ 8 wherein the control unit gates the physical layer channel off in the selected time slots on the ACK subchannel while the mobile station is idle.

14. (Previously presented) The radio base station of claim 8 further wherein the control unit repeats each ACK and NACK indication a predetermined number of times.
15. (Currently amended) A signaling method for automatic repeat request comprising:
receiving data packets from a mobile station at a base station;
selectively gating a physical layer radio channel to acknowledge data packets received from the mobile station^{[[;]]}, wherein the physical layer radio channel is gated on to provide one of a positive acknowledgement and a negative acknowledgement and is gated off to provide the other one of the positive acknowledgement and the negative acknowledgment; and
wherein said physical layer radio channel is a forward common power control channel, and further comprising transmitting power control bits in time-multiplexed power control groups on a forward common power control channel, for power controlling a plurality of mobile stations, and defining an ACK subchannel on the forward common power control channel by allocating a number of power control group slots for sending ACK/NACK indications rather than power control bits, and wherein selectively gating the physical layer radio channel to acknowledge data packets received from the mobile station comprises selectively gating the forward common power control on or off as needed for sending an ACK or a NACK to the mobile station at the power control group slots allocated for sending ACK/NACK indications to the mobile station.
16. (Canceled)

17. (Canceled)

18. (Canceled)

19. (Canceled)

20. (Currently amended) The method of claim ~~[[19]]~~15 further comprising gating off the physical layer channel in the selected time slots on the ACK subchannel while the mobile station is idle.

21. (Original) The method of claim 15 further comprising repeating each ACK and NACK indication a predetermined number of times.

22. (Canceled)

23. (Canceled)

24. (Canceled)